

## WEST Search History

DATE: Friday, July 18, 2003

| <u>Set Name</u>                 | <u>Query</u>      | <u>Hit Count</u> | <u>Set Name</u> |
|---------------------------------|-------------------|------------------|-----------------|
| side by side                    |                   |                  | result set      |
| <i>DB=DWPI; PLUR=YES; OP=OR</i> |                   |                  |                 |
| L2                              | L1 and glycidyl\$ | 36               | L2              |
| L1                              | golf\$            | 23737            | L1              |

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 11:16:40 ON 18 JUL 2003)

FILE 'REGISTRY' ENTERED AT 11:16:47 ON 18 JUL 2003

L1 15525 S 106-91-2/CRN  
L2 1303 S 106-90-1/CRN  
L3 681 S 74-85-1/CRN AND (L1 OR L2)

FILE 'CA' ENTERED AT 11:17:25 ON 18 JUL 2003

L4 32 S GOLF? AND L3  
L5 35 S GOLF? AND (L1 OR L2)  
L6 3 S L5 NOT L4

| L Number | Hits  | Search Text   | DB                 | Time stamp          |
|----------|-------|---|--------------------|---------------------|
| 1        | 1460  | ((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:06 |
| 2        | 30    | ((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:06 |
| 3        | 8     | ((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$) and glycidyl\$   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:10 |
| 4        | 22    | ((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$) not (((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and glycidyl\$)  | USPAT;<br>US-PGPUB | 2003/07/18<br>13:13 |
| 5        | 962   | ((473/378) or (473/374) or (473/373)).CCLS.   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:13 |
| 6        | 61    | ((473/378) or (473/374) or (473/373)).CCLS.) and glycidyl\$   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:13 |
| 7        | 58    | ((473/378) or (473/374) or (473/373)).CCLS.) and glycidyl\$) not (((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$)  | USPAT;<br>US-PGPUB | 2003/07/18<br>13:35 |
| 8        | 11165 | golf\$[ab]  | USPAT;<br>US-PGPUB | 2003/07/18<br>13:35 |
| 9        | 118   | golf\$[ab] and glycidyl\$   | USPAT;<br>US-PGPUB | 2003/07/18<br>13:35 |
| 10       | 54    | (golf\$[ab] and glycidyl\$) not (((473/378) or (473/374) or (473/373)).CCLS.) and glycidyl\$) not (((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$) or (((473/378) or (473/374) or (473/373)).CCLS.) and glycidyl\$) or (((525/176) or (525/173) or (525/130) or (525/182) or (525/208)).CCLS.) and golf\$) | USPAT;<br>US-PGPUB | 2003/07/18<br>13:36 |

L4 ANSWER 19 OF 32 CA COPYRIGHT 2003 ACS  
 AN 130:197426 CA  
 TI Compositions comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin  
 IN Kim, Hyun; Snell, Dean; Renard, Philippe; Vincent, Benoit  
 PA Taylor Made Golf Co., Inc., USA  
 SO PCT Int. Appl., 81 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A63B037-12  
 ICS C08L033-02; C08L077-00  
 CC 37-6 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 38, 39

FAN.CNT 1

|      | PATENT NO.      | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|------|----------|-----------------|----------|
| PI   | WO 9908756      | A1   | 19990225 | WO 1998-US17231 | 19980820 |
|      | W: AU, GB, JP   |      |          |                 |          |
|      | AU 9889158      | A1   | 19990308 | AU 1998-89158   | 19980820 |
|      | GB 2343123      | A1   | 20000503 | GB 2000-4076    | 19980820 |
|      | JP 2003504089   | T2   | 20030204 | JP 2000-509491  | 19980820 |
| PRAI | US 1997-915081  | A    | 19970820 |                 |          |
|      | US 1998-70497P  | P    | 19980105 |                 |          |
|      | WO 1998-US17231 | W    | 19980820 |                 |          |

AB Title compn. comprises an amide block copolymer or rubber having Shore D hardness .ltoreq.40, an ionomer having a hardness greater than the hardness of the amide block copolymer or rubber, and, optionally, a compatibilizer. The resp. amts. of amide block copolymer or rubber and ionomer depend upon the desired cover hardness. Thus, a **golf** ball having a 1.55 in. polybutadiene core (PGA compression 70) and a single-layer cover comprising 90% Pebax 2533 (Shore D hardness 25) and

10%

Surlyn AD 8546 (Li salt, Shore D hardness 66, elongation 275%) had PGA compression 68, cover Shore D hardness 37, driver spin 4440 rpm, drive velocity 153.2 mph, driver distance 252 yd, and 8-iron spin 9850 rpm, compared with 66, 44, 3565, 254.3, 252, and 8200, resp., for a coating contg. Surlyn 8320 instead of Pebax 2533, and 87, 48, 4625, 160.5, 258, and 9600, resp., for a balata cover.

ST polyamide rubber ionomer blend **golf** ball; **golf** ball  
 cover ionomer polyamide blend

IT **Golf** balls

(compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Polymer blends

RL: DEV (Device component use); USES (Uses)

(compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Ionomers

RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Butadiene rubber, uses

RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)

(core; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Synthetic rubber, uses  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (ethylene-glycidyl methacrylate-Me acrylate, compatibilizer, Lotader

AX 8900; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Polyethers, uses  
 Polyethers, uses  
 Polyethers, uses  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (polyamide-polyester-, block, elastomeric; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Synthetic rubber, uses  
 Synthetic rubber, uses  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (polyamide-polyester-polyether, block; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Polyesters, uses  
 Polyesters, uses  
 Polyesters, uses  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (polyamide-polyether-, block, elastomeric; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Polyester rubber  
 Polyester rubber  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (polyamide-polyether-, block; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT Polyamides, uses  
 Polyamides, uses  
 Polyamides, uses  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (polyester-polyether-, block, elastomeric; compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT 9003-17-2  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (butadiene rubber, core; compns. comprising an amide block copolymer

or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT 25608-26-8, Surlyn 8140 28516-43-0, Surlyn 9120 75062-18-9, Surlyn AD 8552 168679-80-9, Surlyn 7930 220786-79-8, Surlyn AD 8546  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (compns. comprising an amide block copolymer or rubber and an ionomer for **golf** ball covers, and **golf** balls therefrom for increased distance and improved spin)

IT 51541-08-3, Ethylene-glycidyl methacrylate-methyl acrylate copolymer  
 RL: DEV (Device component use); POF (Polymer in formulation); USES (Uses)  
 (rubber, compatibilizer; compns. comprising an amide block copolymer

or rubber and an ionomer for **golf** ball covers, and **golf**

balls therefrom for increased distance and improved spin)  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE